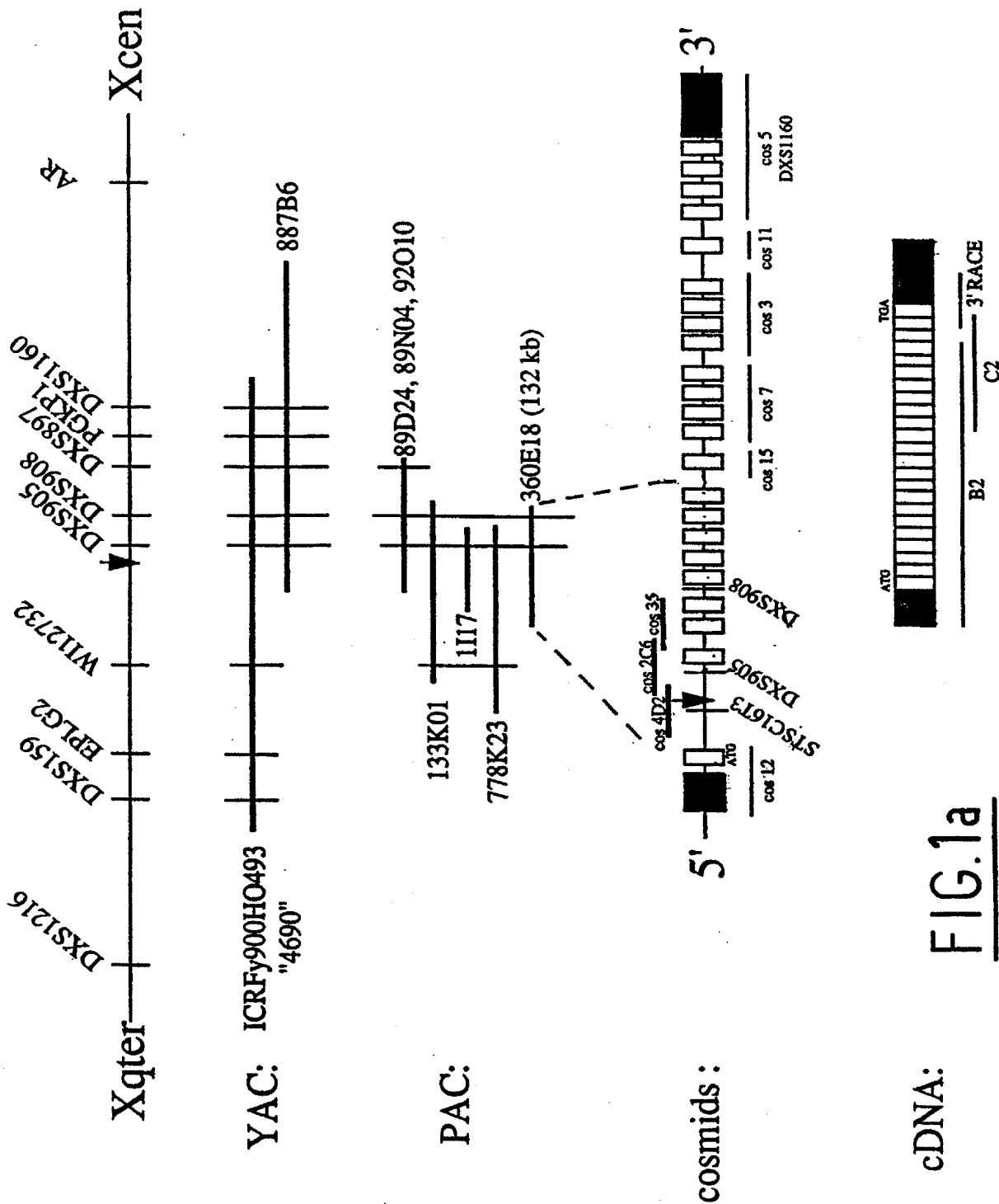


1/8

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2 / 8

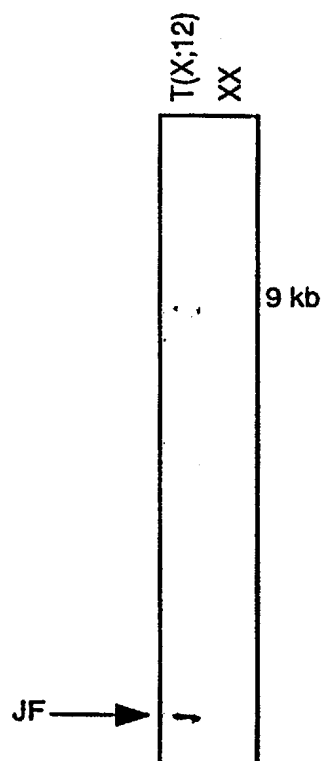
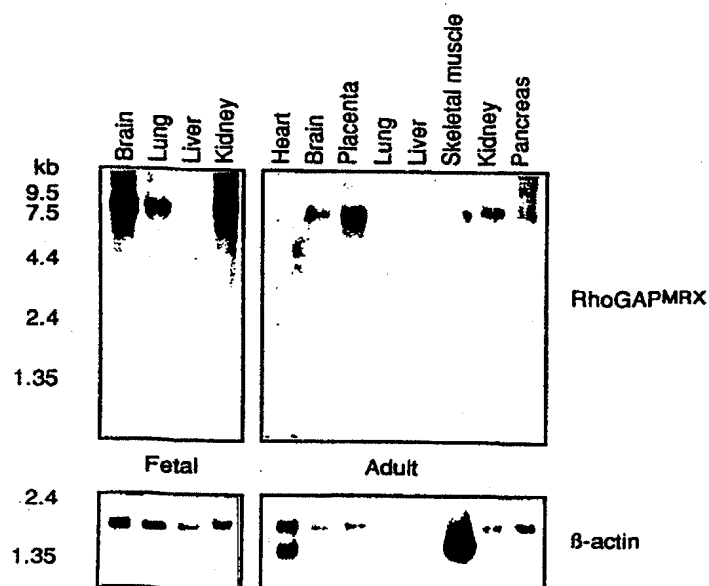


FIG. 1b

FIG. 2



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	8												

FIG. 3a

4/8

001217 22478560

ATC TAC CAC AGC CCT ATA ACA AAA CAG CAA GAA ATG GAG CTA AAT GAA GTG GGC TTC AAG TTT GTC AGG 1173
 I Y H S P I T K Q Q E M E L N E V G F K F V R 391
 AAG TGC ATC AAT ATT GAG ACC AAA GGG ATC AAG ACA GAA GGG TTG TAC CGC ATG GGC AGC AAT 1242
 K C I N I I E T K K G I K T E G L Y R T V G S N 414
 ATT CAG GTT CAG AAG CTG AAG CTG AAT GCC TTT TTT GAT CCT AAT TGC CCA GGA GAT GTT GAT TTT CAT AAT 1311
 I Q V Q K L L N A F F D P K C P G D V D F H N 437
 AGT GAC TGG GAC ATT AAG ACA ATC ACC AGC TCC TTG AAA TTC TAC CTC AGG AAT CTT TCT GAA CCT GTC 1380
 S D W D I K T I T S S L K F Y L R N L S E P V 460
 ATG ACC TAT AGA CTT CAC AAA GAG CTG GTC TCT GCT GCC AAG TCT GAC AAC CTG GAT TAC CGC CTA GGA 1449
 M T Y R L L H K E L V S A A K S D N L D Y R L G 483
 GCT ATT CAC TCC CTG GTA TAT AAG CTA CCA GAA AAG AAC CGA GAG ATG CTG GAA CTT CTG ATA AGA CAC 1518
 A I H S L V Y K L P E K N R E M L L E L I R H 506
 TTG GTC AAT GTG TGT GAG CAC AGC AAA GAG AAT CTT ATG ACC CCC TCC AAC ATG GGA GTA ATC TTT GGG 1587
 L V N V C E H S K E N L M T P S N M G G V I F G 529
 CCC ACC CTG ATG AGA GCT CAG GAG GAC ACT GTG GCC GGC ATG AAC ATC AAA TTC CAG AAC ATA GTG 1656
 P T L M R A Q E D T V A A M M N I K F Q N I V 552
 GTG GAA ATA CTA ATC GAG CAC TTT GGC AAG ATC TAT TTA GGT CCA CCT GAG GAA AGC GCT GCA CCG CCA 1725
 V E I L I E H F G K I Y L G P P E E S A A P P 575
 GTG CCT CCG CCT CGG GTG ACA GCA AGA AGC CAC AAA CCA ATC AGC ATT TCA AAG CGC TTG CTG CGA GAA 1794
 V P P P R V T A R R H K P I T I S K R L L R E 598
 AGG AGC GTT TTC TAT ACT TCT TCC CTG GAT GAA AGC GAA ATC CAA CAT CAA ACA CCG AAT GGT 1863
 R T V F Y T S S L D E S E D E I Q H Q T P N G 621
 ACT ATC ACC AGC AGC ATA GAA CCC CCC AAG CCA CCA CAC CCC AAA CTA CCT ATT CAG AGG AGT GGG 1932
 T I T S I E P P K P Q H P K L P I Q R S G 644
 GAA ACT GAT CCT GGG AGG AAG TCC CCA AGC AGG CCT ATT TTG GAT GGC AAG TTG GAG CCC TGC CCA GAG 2001
 E T D P G R K S P S R P I L D G K L E P C P E 667
 GTG GAC GTG GGG AAG TTG GTG TCT AGG CTG CAG GAT GGA GGG ACC AAG ATC ACC CCA AAG GCC ACC AAT 2070
 V D V G K L V S R L Q D G G T K I T P K A T N 690
 GGA CCC ATG CCA GGC TCT GGG CCC ACC AAG ACC CCC TCT TTC CAC ATA AAG AGA CCA GCT CCC CGG CCC 2139
 G P M P G S G P T K T P S F H I K R P A P R P 713
 CTG GCC CAC CAC AAG GAG GGG GAT GCT GAC AGT TTC AGC AAA GTG CGG CCT CCA GGA GAA AAG CCA ACC 2208
 L A H H K E G D A D S F S K V R P P G E K P T 736
 ATC ATC CGC CCC CCA GTG AGG CCC CCA GAT CCT CCC TGC CGG GCA GCT ACT CCC CAA AAG CCA GAA CCA 2277
 I I R P P V R P D P C R A A T P Q K P E P 759
 AAG CCA GAT ATT GTG GCT GGC AAT GCG GGG GAA ATC TCA TCT GTG GCT TCC AGG ACC AGG TTT 2346
 K P D I V A G N A G E I T S S V V A S R T R F 782
 TTT GAA ACA GCT TCC CGG AAA ACA GGA AGT TCT CAA GGC AGA CTT CCT GGA GAT GAA AGT TGA ggctaca 2416
 F E T A S R K T G S S Q G R L P G D E S * 802
 gggttttaaaagccttgccctcagagaccctttccaggttctgaaag... 2463

FIG. 3a cont.

rhogap	392
graf	197
CHELZK328	69
abr	672
bcx	1086
NN-chimaerin	156
β -chimaerin	117
p190	1286
p85 α	128
consensus	

rhOGAP^{MX}
Graf
CELZK328
Abi
BCI
NN-chimaerin
β-chimaerin
p190
p85α
consensus

r h o G A P M R X
 g r a f
 C E L Z K 3 2 8
 A b r
 B c r
 N - c h i m a e r i n
 β - c h i m a e r i n
 p 1 9 0
 p 8 5 α
 c o n s e n s u s

FIG. 3b

[illegible]

rhogap MRR
CEL T04C95
EST483210
EST387042
CONSENSUS

RRX
MRX
P
GA
T
0
4
C
9
5
E
S
T
4
8
3
2
1
0
E
S
T
3
8
7
0
4
2
C
O
N
S
I
D
E
R
S
U
S

rhOGAP MRR
CEL T04C95
EST 483210
EST 387042
CONSensus

FIG. 3c

7/8

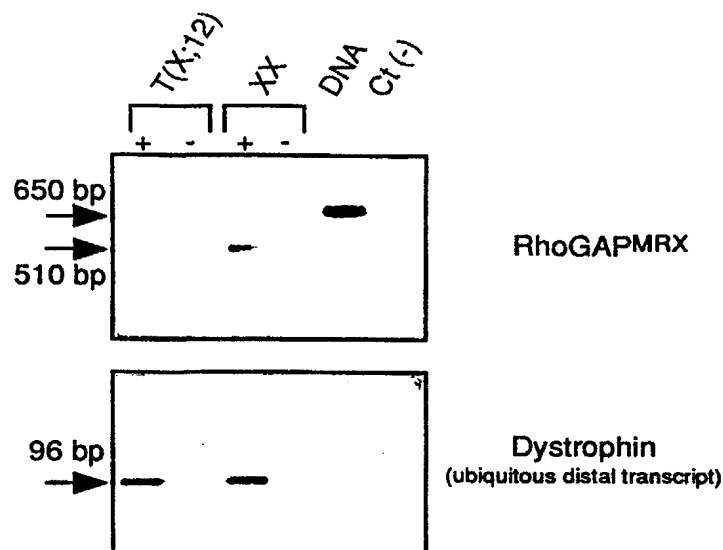


FIG. 4a

Val Ile Phe Gly Pro Thr Leu
 Wild-Type 5' CCC TCC AAC ATG GGA GTG ATC TTT GGG CCC ACC CTG 3'
 Val Ser Leu Gly Pro Pro STOP
 Mutant 5' CCC TCC AAC ATG GGA GTA TCT TTG GGC CCA CCC TGA 3'

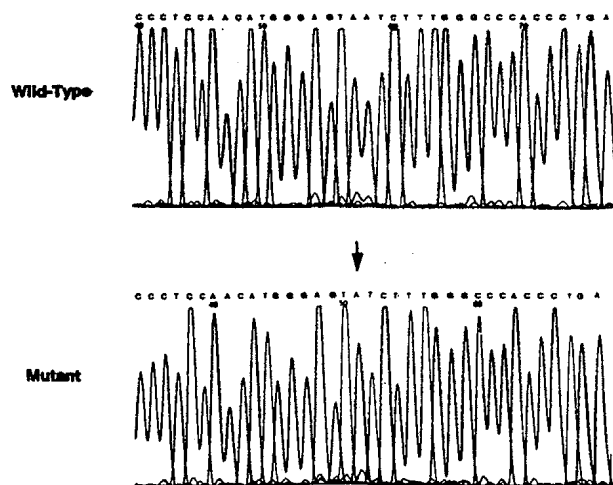


FIG. 4b

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